

Search History

(HCAPLUS, INSPEC, JAPIO, USPATFULL, INPADOC)

STN
5/27/2006

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(FILE 'HOME' ENTERED AT 01:26:07 ON 27 MAY 2006)

FILE 'HCAPLUS, INSPEC, JAPIO, USPATFULL, USPAT2, INPADOC' ENTERED AT
01:27:43 ON 27 MAY 2006

L1 1023 S (QZ OR QUARTZ) (8A) (GLASS (6A) CRUCIBLE#)
L2 156981 S (OUTER(2W)LAYER#)
L3 731 S (OPAQUE) (8A) (QUARTZ (4A) GLASS)
L4 173986 S (INNER(6A)LAYER#)
L5 486 S (CRYSTALLIZAT?) (8A) (PROMOTER#)
L6 11712 S (CRISTOBALITE#)
L7 1111021 S (DOP?)
L8 602310 S (SIO2 OR SILICON(W) DIOXIDE)
L9 2502266 S (TI OR TITANIUM OR ZR OR ZIRCONIUM OR HF OR HAFNIUM OR GE OR

=> s 11 and 12 and 13 and 14 and 15 and 16 and 17

L10 4 L1 AND L2 AND L3 AND L4 AND L5 AND L6 AND L7

=> d 110 1-4 abs,bib

L10 ANSWER 1 OF 4 USPATFULL on STN

AB A known **quartz glass crucible** for crystal pulling consists of a crucible wall, having an **outer layer** which is provided in an external area thereof with a crystallisation promoter which results in crystallisation of **quartz glass**, forming **cristobalite** when the **quartz glass crucible** is heated according to specified use in crystal pulling. The aim of the invention is to provide a **quartz glass crucible** which has a long service life. As a result, the crystallisation promoter contains, in addition to a silicon, a first component which acts as a reticulating agent in quartz glass and a second component which is free of alkali metals and which acts as an agent forming separating points in quartz glass. The above mentioned components are contained and incorporated into a **doping area** (8) of the **outer layer**
(6) having a layer thickness of more than 0.2 mm.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2005:205853 USPATFULL

TI **Quartz glass crucible** and method for the production thereof

IN Korus, Gabriele, Leipzig, GERMANY, FEDERAL REPUBLIC OF Arndt, Martin, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF Laudahn, Hilmar, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF Schwarzbauer, Manfred, Simbach, GERMANY, FEDERAL REPUBLIC OF

PI US 2005178319 A1 20050818

AI US 2003-512114 A1 20030403 (10)
WO 2003-EP3459 20030403

PRAI DE 2002-10217946 20020422

DT Utility

FS APPLICATION

LREP TIAJOLOFF & KELLY, CHRYSLER BUILDING, 37TH FLOOR, 405 LEXINGTON AVENUE, NEW YORK, NY, 10174, US

CLMN Number of Claims: 25

ECL Exemplary Claim: 1

DRWN 1 Drawing Page(s)

LN.CNT 852

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 4 USPATFULL on STN

AB Known is a method of producing a **quartz glass crucible** in which a **crucible base body** is provided at least in part with an **inner layer** in which the formation of **cristobalite** is induced by using a **crystallization promoter**. On the basis thereof, in order to provide an inexpensive method of producing a **quartz glass crucible** with reproducible characteristics for

long service lives, it is suggested according to the invention that the **crystallization promoter** and a reducing substance are introduced into the **inner layer**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:155379 USPATFULL

TI Method of producing a **quartz glass crucible**

IN Korus, Gabriele, Leipzig, GERMANY, FEDERAL REPUBLIC OF
Laudahn, Hilmar, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF
Arndt, Martin, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF
Gertig, Udo, Johannesberg, GERMANY, FEDERAL REPUBLIC OF

PI US 2004118156 A1 20040624

AI US 2003-655744 A1 20030905 (10) →

RLI Continuation of Ser. No. WO 2002-EP2395, filed on 5 Mar 2002, UNKNOWN
Continuation-in-part of Ser. No. US 2001-902473, filed on 10 Jul 2001,
PENDING

PRAI DE 2001-10111405 20010308

DE 2001-139648 20010811

DT Utility

FS APPLICATION

LREP TIAJOLOFF & KELLY, CHRYSLER BUILDING, 37TH FLOOR, 405 LEXINGTON AVENUE,
NEW YORK, NY, 10174

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 626

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 4 USPATFULL on STN

AB Known is a method of producing a **quartz glass crucible** in which a **crucible** base body is provided at least in part with an **inner layer** in which the formation of **cristobalite** is induced by using a **crystallization promoter**. On the basis thereof, in order to provide an inexpensive method of producing a **quartz glass crucible** with reproducible characteristics for long service lives, it is suggested according to the invention that the **crystallization promoter** and a reducing substance are introduced into the **inner layer**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2002:255634 USPATFULL

TI Method of producing a **quartz glass crucible**

IN Korus, Gabriele, Leipzig, GERMANY, FEDERAL REPUBLIC OF
Laudahn, Hilmar, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF
Arndt, Martin, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF
Gertig, Udo, Johannesberg, GERMANY, FEDERAL REPUBLIC OF

PI US 2002139143 A1 20021003

US 6755049 B2 20040629 →

AI US 2001-902473 A1 20010710 (9)

PRAI DE 2001-10111405 20010308

DT Utility

FS APPLICATION

LREP LAW OFFICE OF ANDREW L. TIAJOLOFF, C/O ROBIN BLECKER & DALEY, 330
MADISON AVENUE, NEW YORK, NY, 10017

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 534

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 4 USPAT2 on STN

AB Known is a method of producing a **quartz glass crucible** in which a **crucible** base body is provided at least in part with an **inner layer** in which the formation of **cristobalite** is induced by using a **crystallization promoter**. On the basis thereof, in order to provide an inexpensive method of producing a **quartz glass crucible** with reproducible characteristics for

long service lives, it is suggested according to the invention that the **crystallization promoter** and a reducing substance are introduced into the **inner layer**.

AN 2002:255634 USPAT2
TI Method of producing a **quartz glass crucible**
IN Korus, Gabriele, Leipzig, GERMANY, FEDERAL REPUBLIC OF
Laudahn, Hilmar, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF
Arndt, Martin, Bitterfeld, GERMANY, FEDERAL REPUBLIC OF
Gertig, Udo, Johannesberg, GERMANY, FEDERAL REPUBLIC OF
PA Heraeus Quarzglas GmbH & Co. KG, Hanau, GERMANY, FEDERAL REPUBLIC OF
(non-U.S. corporation)
PI US 6755049 B2 20040629
AI US 2001-902473 20010710 (9)
PRAI DE 2001-10111405 20010308
DT Utility
FS GRANTED
EXNAM Primary Examiner: Vincent, Sean
LREP Tiajoloff & Kelly
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 555

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